FEATURE 232

SURFACE LAYERS

Roadway Side	Allows Tie	LRS Package	Feature Type	Interlocking	Secured
C/R/L	Yes	No	Length	No	Yes
Responsible Party for Data Collection	District Planning				

Definition/Background: Records the limits of the friction course layer, pavement surface thickness, and pavement surface layer.

Codes for this feature are updated by the State Materials Office. New codes are added as needed for new materials that have been approved for usage.

FRICTCSE | FRICTION COURSE

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
49		Pavement Management, HPMS	All functionally classified roadways on the SHS.	N/A	N/A

Definition/Background: The friction course is the layer of non-skid surface on top of the surface type or structural course.

How to Gather this Data: In office—It may be found on construction plans. Enter code 0-9. On a divided highway, obtain the friction course for each side separately.

Code 0—None if no friction course exists, i.e., on concrete roadways.

Special Situations: Call the project manager of any project when two or more type materials are indicated on construction plans.

Codes	Descriptions
0	None
1	Type 1
2	Type 2
3	Type 3
3	Type 3
4	Type 4
5	Type 5
6	Type 6
7	Type 9.5
8	Type 12.5
9	Other

SURFLXTH | PAVEMENT SURFACE THICKNESS (X=1-7)

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
56-58		Pavement Management, HPMS	HPMS standard samples on all roadways functionally classified as interstate, other freeways and expressways, and other principal arterials.	N/A	N/A

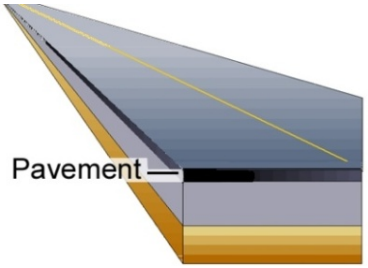
How to Gather this Data: Record the surface layer thickness to the nearest inch. SURFL1TH corresponds to the bottom surface layer; SURFL2TH is the next to the bottom layer, and so forth.

Value Pavement Surface Thickness: 4 Bytes: XX.XX—Enter 01.00-16.00 to nearest inch. It is not necessary to code all decimal places.

SURFLAYX | PAVEMENT SURFACE LAYER (X=1-7)

HPMS	MIRE	Who/What uses this Information	Required For	Offset Direction	Offset Distance
49		Pavement Management, HPMS	HPMS standard samples on all roadways functionally classified as interstate, other freeways and expressways, and other principal arterials.	N/A	N/A

Definition/Background: The surface is the composite of the roadway designed to be used for the driving surface. This composite can be made from many materials of different composition and have numerous layers.



How to Gather this Data: Identify and record the corresponding composite material code from the list below. SURFLAY1 corresponds to the bottom surface layer, SURFLAY2 is the next to the bottom layer, and so on. Construction plans, Pavement Management Office, county and local engineers.

Special Situations: If the pavement surface layer information cannot be determined nor collected due to lack of construction plans or other resources, then code UNKW-unknown. Do not make up data.

Codes	Descriptions
ARMI	Asphalt Rubber Membrane Interlaced
BIND	Asphalt Binder Course
BRCK	Brick Pavers
CONC	Portland Cement Concrete
CRL	Crack Relief Layer
FAB	Pavement Overlay Fabric
FC	Friction Course
FC1	Friction Course 1
FC2	Friction Course 2
FC3	Friction Course 3
FC4	Friction Course 4
FC5	Friction Course 5
FC5B	Friction Course 5 Bonded
FC6	Friction Course 6
F12M	Friction Course 12.5 Modified
F125	Friction Course 12.5
F95	Friction Course 9.5
F95M	Friction Course 9.5 Modified

Codes	Descriptions
S	Type S Asphaltic Concrete
SAHM	Sand Asphalt Hot Mix
SP1C	9.5MM Superpave Coarse Graded
SP1F	9.5MM Superpave Fine Graded
SP2C	12.5 Superpave Coarse Grade
SP2F	12.5MM Superpave Fine Graded
SP3C	19.0MM Superpave Coarse Graded
SP3F	19.0MM Superpave Fine Graded
ST	Surface Treatment
S1	Type S-I Asphaltic Concrete
S2	Type S-II Asphaltic Concrete
S3	Type S-III Asphaltic Concrete
T1	Type I Asphaltic Concrete
T2	Type II Asphaltic Concrete
T3	Type III Asphaltic Concrete
UNIM	Unimproved Surface
UNKW	Unknown
WC	Wearing Course
WC1	Wearing Course 1
WC2	Wearing Course 2
WC3	Wearing Course 3
WC4	Wearing Course 4
WC5	Wearing Course 5
WC6	Wearing Course 6
WC7	Wearing Course 7
WC8	Wearing Course 8

EXAMPLES